

ABSTRACT OF THE DISCLOSURE

A wireless device and method provides for adding nodes to a wireless mesh network by adjusting an antenna sensitivity pattern of one or more nodes in the wireless mesh network to exhibit spatial selectivity. The method transmits a query, and if a response is received within a predetermined time period, the wireless device receives the response and adds the responding wireless device to the mesh network. The wireless device can adjust the transmission pattern to enable the antenna sensitivity pattern to cover a predetermined spatial area, and the predetermined time period can be fixed. The wireless devices can adjust the antenna sensitivity pattern in a coordinated manner. A method for supporting data connections between three or more wireless devices includes adjusting the sensitivity pattern of an antenna on a first wireless device, communicating with a second wireless device, and further adjusting the sensitivity pattern of the antenna for more wireless devices.